aiwa

COMPACT DISC CARRY COMPONENT SYSTEM
SISTEMA DE COMPONENTES DE DISCOS COMPACTOS PORTATIL
MINICHAINE PORTABLE A LECTEUR DE CD

CA-DW637

OPERATING INSTRUCTIONS En (English)
See page 2.

MANUAL DE INSTRUCCIONES E (Español)
Ver la página 18.

MODE D'EMPLOI F (Français)
Voir page 34.

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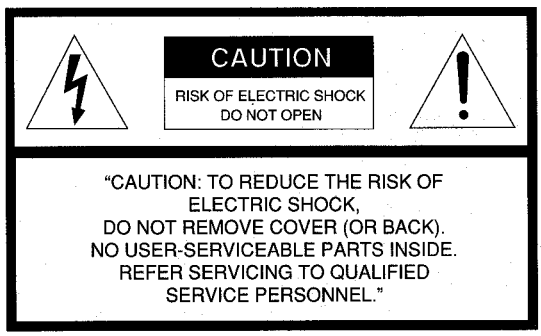
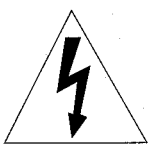
COMPACT disc DIGITAL AUDIO

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
"CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL."

Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

OWNER'S RECORD

For your convenience, record the model number and serial number (you will find them at the rear of the unit) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No. _____ Serial No. _____

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

.... Reorient or relocate the receiving antenna.
.... Increase the separation between the equipment and receiver.
.... Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
.... Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
2 **Heat** - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.
It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** - Place the unit on a flat, even surface.
4 **Ventilation** - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** - Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** - When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 **Condensation** - Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** - The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** - Use on batteries or AC house current, as specified in the Operating Instructions and marked on the unit.
2 **Polarization** - As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
3 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC outlets and extension cords beyond their capacity, as this could result in fire or shock.

4 **Extension cord** - To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.

5 **When not in use** - Unplug the AC power cord from the AC outlet or remove all the batteries if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:

- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

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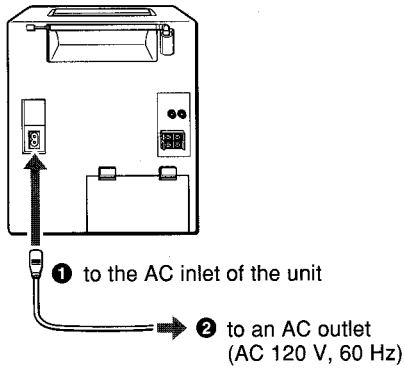
POWER SUPPLY

Using on AC House Current

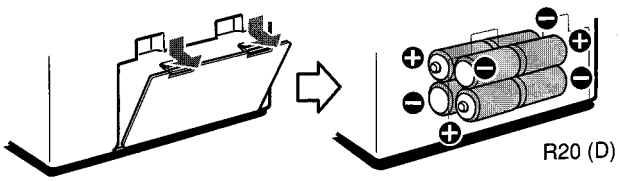
Connect the AC cord as illustrated below.



CAUTION
Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Using on Batteries

Open the lid of the battery compartment on the rear and insert eight R20 (size D) batteries, not supplied, as illustrated below. Then close the lid.
To switch from AC power supply to battery power supply, disconnect the AC cord from the AC inlet.
Batteries wear excessively when the cord is connected.
- While using the unit on the batteries, the display window will not be illuminated.



The batteries need to be replaced when:
The OPE/BATT indicator becomes dim, the tape speed slows down, volume decreases, or sound is distorted during operation.

Notes on batteries
To avoid damage from leakage or explosion, observe the following:
- Insert the batteries with the ⊕ and ⊖ marks correctly aligned.
- Do not mix different types of batteries or old batteries with new ones.
- Never recharge the batteries, apply heat to them or take them apart.
- Remove dead batteries.

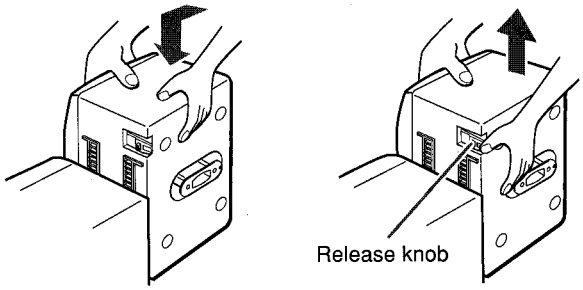
If liquid leaks from the batteries, wipe thoroughly to remove.

CONNECTIONS

IMPORTANT
- Make sure that the AC cord is disconnected and batteries are removed before connecting speakers.
- Do not connect other than the supplied speakers.

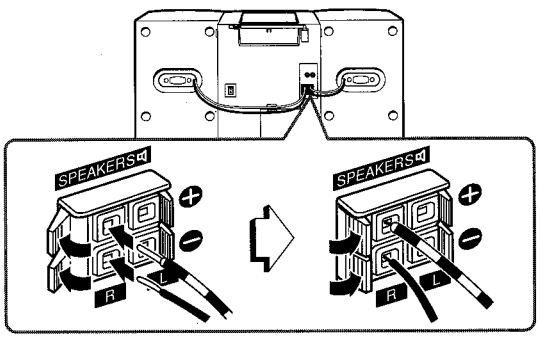
1 Position the speakers.

To couple with the speakers, slide each speaker down into the guide brackets on the center unit until the height is level with the unit.
To separate the unit from the speakers, slide the speakers up and off, while pressing the speaker release knob.



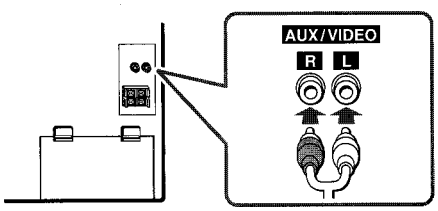
2 Connect the speakers.

Connect the right speaker cord to the R terminals, and the left speaker cord to the L terminals.
Connect the speaker cord with the white broken line to ⊕ and the other cord to ⊖.



Other Connections

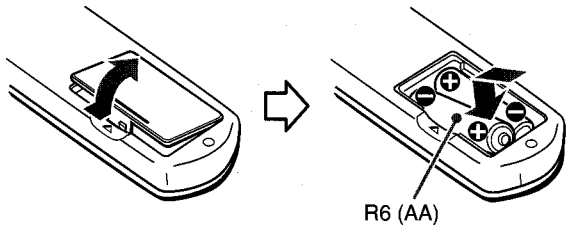
Sound signals can be input to this unit through the AUX/VIDEO jacks.
Use a cable with RCA phono plugs (not supplied) to connect the external equipment.
Connect the red plug to the R jack, and the white plug to the L jack.



To listen to the external source
Press AUX and play the equipment.
Refer also to the operating instructions of the connected equipment for details.

REMOTE CONTROL

Inserting batteries
Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries
The maximum operational distance of the remote control should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

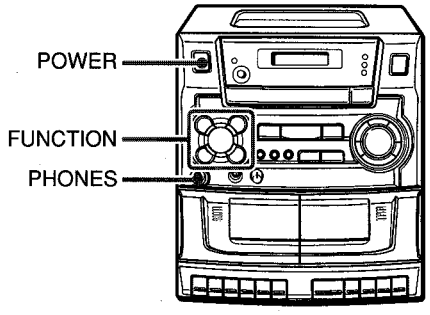
Using the remote control
The instructions in this manual refer mainly to the buttons on the main unit. Buttons on the remote control with the same names as those on the main unit can be used as well.

To use the FUNCTION button
The FUNCTION button substitutes for the FUNCTION buttons (CD, AUX, TUNER/BAND, TAPE) on the main unit. Each time FUNCTION is pressed while power is on, the next function is selected cyclically.

NOTE

- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the unit is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (television, etc.)

BEFORE OPERATION



To turn the power on
Press one of the FUNCTION buttons (CD, AUX, TUNER/BAND, TAPE). Play of the inserted disc or the previously tuned station is received (Direct Play Function).
POWER is also available.

After use
Press POWER to turn off the power. The display changes to the clock.

NOTE

When using on the batteries, you cannot turn the power on with the remote control.

Using the headphones
Connect headphones to the PHONES jack with a stereo mini plug (ø3.5 mm, 1/8 inch).
No sound is output from the speakers while the headphones are plugged in.

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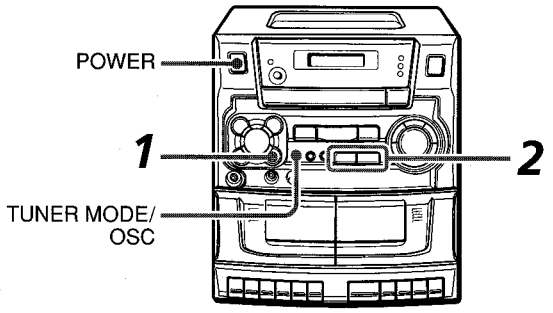
MANUAL TUNING

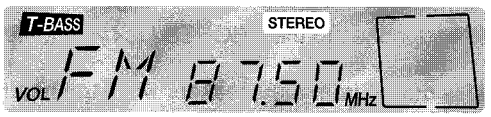


1 Press TUNER/BAND repeatedly to select the desired band.

FM ⟶ AM

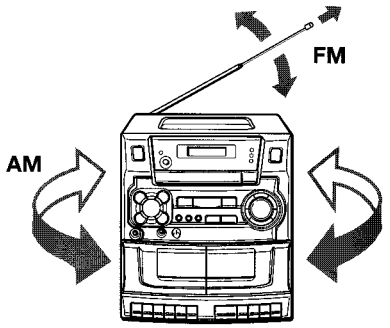
When TUNER/BAND is pressed while the power is off, the power is turned on directly and the previously tuned station is received (Direct Play Function).
When using the remote control, press BAND repeatedly while the power is on.

2 Press I◄◄ DOWN or ►►I UP to select a station.
Each time the button is pressed, the frequency changes.
During FM stereo reception, STEREO is displayed.



To search for a station quickly (Auto Search)
Keep I◄◄ DOWN or ►►I UP pressed until the tuner starts searching for a station. After tuning in to a station, the search stops.
To stop the Auto Search manually, press I◄◄ DOWN or ►►I UP.
- The Auto Search may not stop at stations with very weak signals.

For better reception
FM
Extend the FM antenna and orient it for the best reception.
AM
The AM antenna is inside the unit. Position the unit for the best reception.



When an FM stereo broadcast contains noise
Press TUNER MODE/OSC.
MONO appears on the display.
Noise is reduced, although reception is monaural.
MODE on the remote control is also available.

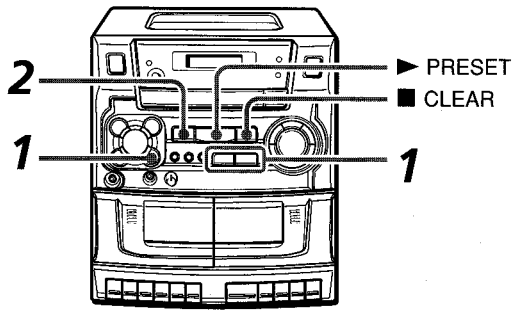
To restore stereo reception, press the button again.

To change the AM tuning interval
The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the tuning interval.
Press POWER while pressing TUNER/BAND.
To reset the interval, repeat this procedure.

NOTE

When the AM tuning interval is changed, all preset stations (see PRESETTING STATIONS) are cleared. The preset stations have to be set again.

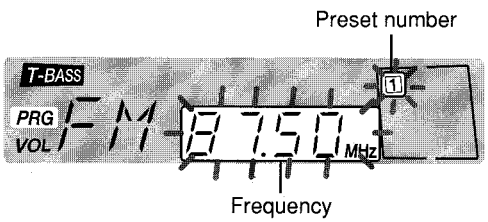
PRESETTING STATIONS



The unit can store a total of 24 preset stations for FM and AM. However, up to 16 stations can be preset for each band. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

1 Press TUNER/BAND to select a band. Then, press ⏮ DOWN or ⏭ UP to select a station.

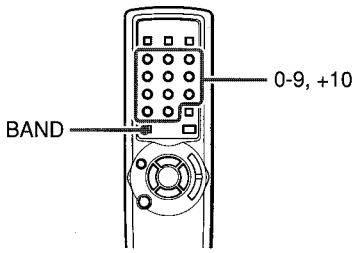
2 Press ❚❚ SET to store the station.
A station is assigned a preset number, beginning from 1 in consecutive order for each band.



3 Repeat steps 1 and 2.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.



1 Press BAND to select a band.

2 Press the numbered buttons 0-9, +10 to select a preset number.
Example:
To select preset number 15, press +10 and 5.
To select preset number 10, press +10 and 0.

Selecting a preset station on the main unit
Press TUNER/BAND to select a band. Then, press ► PRESET repeatedly.
Each time the button is pressed, the next highest number is selected.

To clear a preset station
Select the preset station to be cleared. Then, press ■ CLEAR, and press ❚❚ SET within 4 seconds.
The preset numbers of all other stations in the band with higher numbers are also decreased by one.

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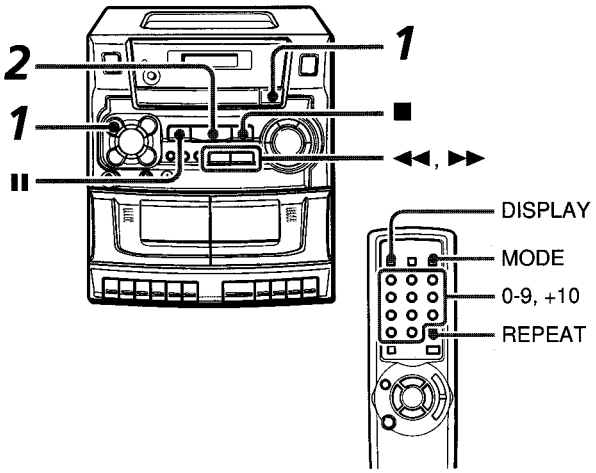
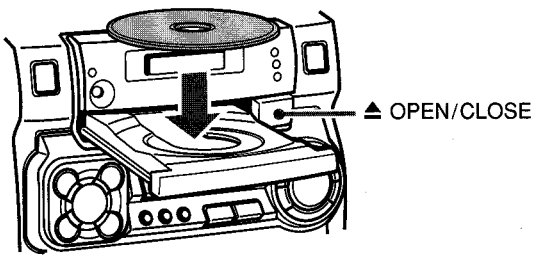
NOTE

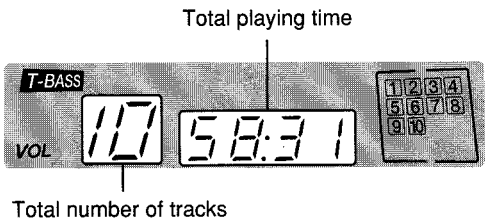
During operation ❚❚ PAUSE, ► PLAY and ■ STOP on the remote control are also available instead of ❚❚ SET, ► PRESET and ■ CLEAR on the main unit respectively.

CD OPERATIONS

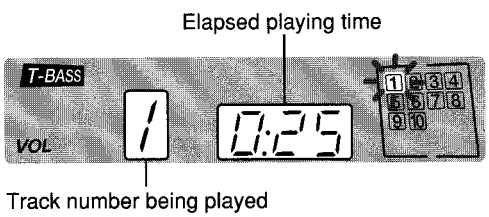


1 Press CD, then press ≜ OPEN/CLOSE to open the disc compartment. Load a disc with the label side up and close the disc compartment.





2 Press ►.
Play begins with the first track.



To stop play, press ■.
To pause play, press II. To resume play, press again.
To search for a particular point during playback, keep ◄◄ or ►► pressed and release the button at the desired point.
To skip to the beginning of a track during playback, press ◄◄ or ►► repeatedly.
To remove discs, press ≜ OPEN/CLOSE.

To start play when the power is off (Direct Play Function)
Press CD. The power is turned on and play of the loaded disc begins.

To check the remaining time
Press DISPLAY on the remote control during play. The amount of time remaining until all tracks finish playing is displayed. To restore the play time display, press the button again.

Selecting a track with the remote control
Press the numberd buttons 0-9, +10 to select a track.
Example:
To select the 25th track, press +10, +10 and 5.
To select the 10th track, press +10 and 0.
The selected track starts to play and play continues to the end of that disc.

NOTE

- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones).
  It may result in malfunctions.
- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on the disc tray.

REPEAT PLAY

One track, all the tracks or programmed tracks can be played repeatedly.
Press REPEAT on the remote control to display REPEAT ALL or REPEAT 1.
To repeat all the tracks, display REPEAT ALL.
To repeat the current track only, display REPEAT 1.

To cancel repeat play, press REPEAT to turn off REPEAT.
To repeat the desired tracks only, program the tracks and press REPEAT to display REPEAT ALL.

RANDOM PLAY

All the tracks on the disc can be played randomly.
Press MODE once on the remote control in stop mode to display "r Rn".
Press ► to start play.

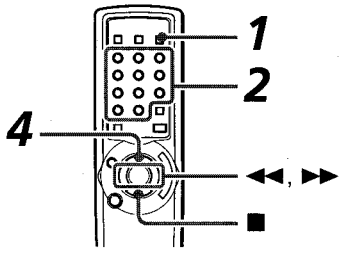
To cancel random play, press MODE repeatedly in stop mode until the total play time display is restored.

NOTE

- Even if the ◄◄ button is pressed, a previously played track cannot be skipped. The unit returns to the beginning of the current track only.
- During random play, one-track repeat (REPEAT 1) cannot be performed.
- If you select tracks with the numbered buttons, random play is canceled.

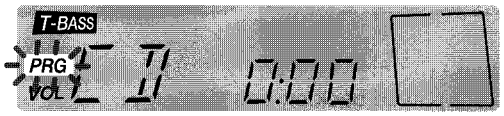
PROGRAMMED PLAY

Up to 30 tracks can be programmed from the inserted disc.

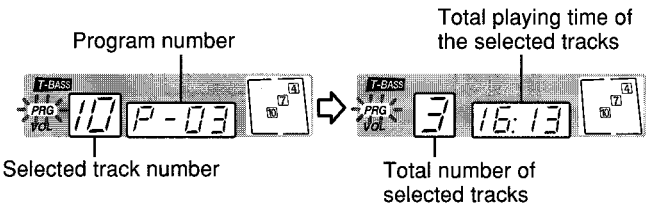


Use the remote control.

1 Press MODE twice in stop mode.
PRG flashes on the display.



2 Press the numbered buttons 0-9, +10 to program a track.
Example:
To select the 12th track, press +10 and 2.
To select the 20th track, press +10, +10 and 0.



3 Repeat step 2 to program other tracks.

4 Press ► to start play.

To check the program
Each time ◄◄ or ►► is pressed in stop mode, a track number and program number will be displayed.

To clear the program
Press ■ in stop mode.

To add tracks to the program
In stop mode, repeat step 2. The track will be programmed after the last track.

To change the programmed tracks
Clear the program and repeat all the steps again.

NOTE

If the programmed time is more than 99:59 minutes, or the disc track number being programmed is 31 or above, the display shows - -:- - as the total playing time.

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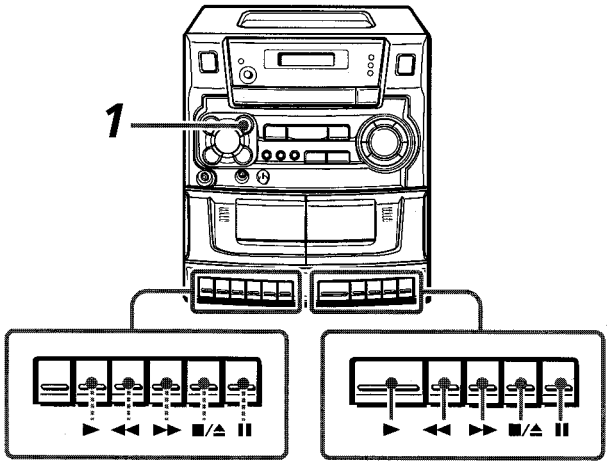
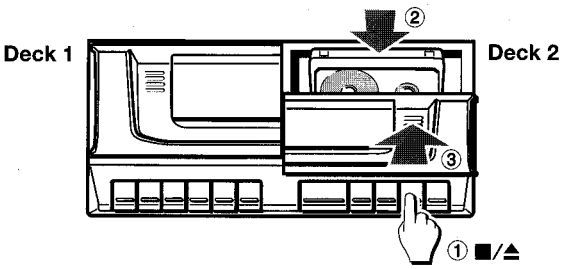
TAPE OPERATIONS



- Use Type I (normal) tapes only.
- Tapes are played back on one side only.

1 Press TAPE and press ■/≙ STOP/EJECT to open the cassette holder.
Insert a tape with the exposed side down and the side to be played facing out.



Push the cassette holder to close.

2 Press ► PLAY to start play.

To stop play, press ■/≙ STOP/EJECT.
To pause play, press II PAUSE. To resume play, press again.
To fast forward or rewind, press ►► FF or ◄◄ REW in stop mode. Then press ■/≙ to stop the tape.

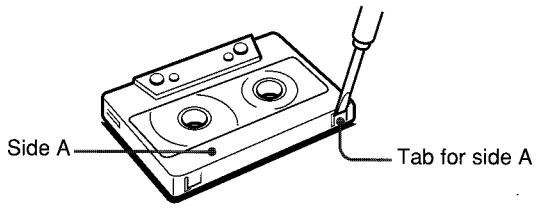
To start play when the power is off (Direct Play Function)
Press ► PLAY. The power is turned on and play of the inserted tape begins.

CONTINUOUS PLAY

After play on deck 2 finishes, play on deck 1 will start without interruption.
During play on deck 2, press II PAUSE then press ► PLAY on deck 1.
II PAUSE on deck 1 will be released at the end of play on deck 2.

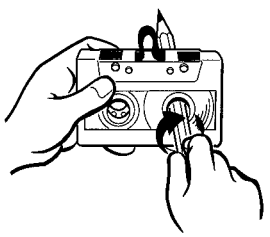
About cassette tapes

- **To prevent accidental erasure,** break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.

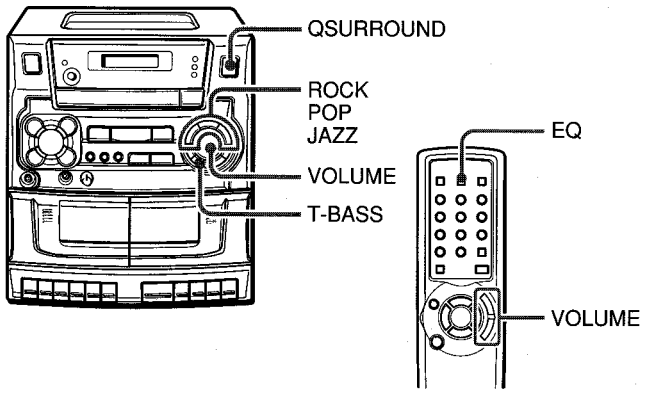


To record on the tape again, cover the tab openings with adhesive tape, etc.

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



ADJUSTING THE SOUND



VOLUME

Press VOLUME ▲ UP or ▼ DOWN.
The volume level is displayed as a number from 0 to 29.
The volume level is automatically set to 21 when the power is turned off with the volume level set to 22 or more.

SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.
Press T-BASS.

To cancel, press the button again.

NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

QSURROUND SYSTEM

The QSURROUND system built into this unit uses only two speakers at the left and right to create an atmosphere that sounds as if you are surrounded by two front speakers and two rear speakers.
Press QSURROUND.

To cancel, press the button again.

NOTE

- The QSURROUND system does not work on monaural sources.
- At higher volumes, turning QSURROUND on may cause sound distortion. In this case, make the volume down.

GRAPHIC EQUALIZER

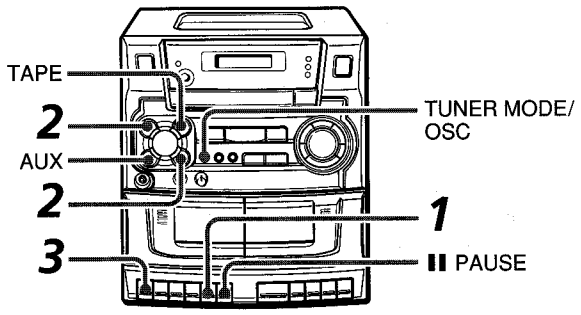
Press ROCK, POP or JAZZ.
The indicator of the selected mode lights up.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
JAZZ: Accented lower frequencies for jazz-type music

To cancel the selected mode
Press the selected button again.

When using the remote control
Press EQ repeatedly.
The equalizer mode changes to ROCK, POP, JAZZ or no equalization, cyclically.

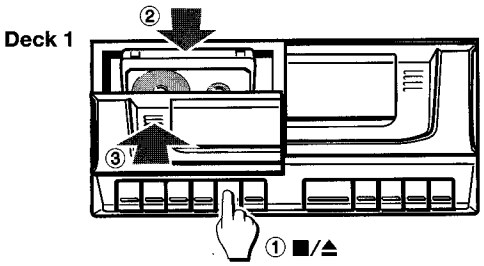
En

RECORDING FROM A CD OR THE TUNER



- Note that recording is done on only one side of the tape.
- Use Type I (normal) tapes only.

1 Insert a tape to be recorded on into deck 1 with the side to be recorded on facing out.



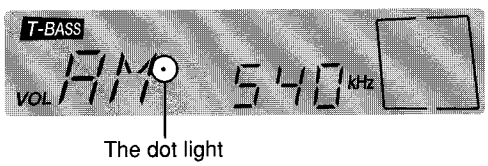
2 Press one of the function buttons and prepare the source to be recorded.
To record from a CD, press CD and load the disc.
To record from a radio broadcast, press TUNER/BAND and tune to a station.

3 Press ● REC to start recording.
► PLAY is pressed simultaneously.
When the selected function is CD, playback and recording start simultaneously.

To stop recording, press ■/≜ STOP/EJECT on deck 1.
To pause recording, press II PAUSE on deck 1. To resume recording, press again.

NOTE

If squealing or beating sounds occur when recording an AM broadcast, press TUNER MODE/OSC, so as to eliminate the noise.
Each time the button is pressed, the dot light on the display is turned on and off.
MODE on the remote control is also available.



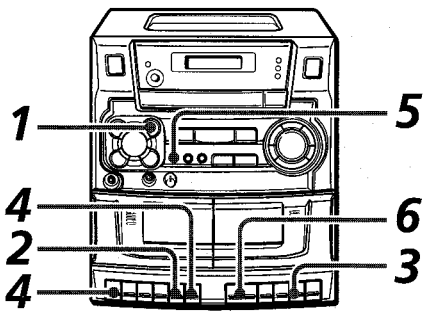
The dot light

To erase a recording
1 Insert the tape to be erased into deck 1.
2 Press TAPE.
3 Press ● REC to start the erasure.

To record from an external source
You can record the sound from an external source connected to the AUX/VIDEO jack.
1 Insert the tape to be recorded on into deck 1.
2 Press AUX.
3 Press ● REC to start recording.
4 Start to play the connected external unit.

Sound adjustment during recording
The output volume and tone of the speakers or headphones may be freely varied without affecting the level of the recording.

DUBBING A TAPE



- Note that recording is done on only one side of the tape.
- Use Type I (normal) tapes only.

1 Press TAPE.

2 Insert a tape to be recorded on into deck 1 with the side to be recorded on facing out.

3 Insert a tape to be played into deck 2 with the side to be played facing out.

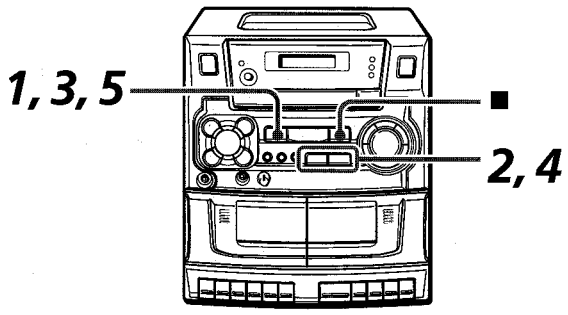
4 Press ❚❚ PAUSE then press ● REC on deck 1 to enter recording pause mode.
► PLAY is pressed simultaneously.

5 Press DUB SPEED to select a dubbing speed.
HI-DUB is displayed: Dubs at high speed.
HI-DUB is not displayed: Dubs at normal speed.

6 Press ► PLAY on deck 2.
❚❚ PAUSE on deck 1 is released and recording starts.

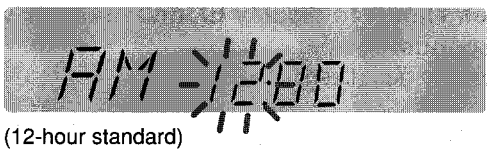
To stop recording, press ■/⏏ STOP/EJECT on deck 1.

SETTING THE CLOCK



When the AC cord is connected for the first time, the time on the display flashes.
Set the time as follows while the power is off.

1 Press ❚❚.
The hour flashes.



(12-hour standard)

2 Press ◄◄ or ►► to designate the hour.

3 Press ❚❚ to set the hour.
The hour stops flashing and the minute starts flashing.

4 Press ◄◄ or ►► to designate the minute.

5 Press ❚❚ to set the minute and complete the setting.
The minute stops flashing on the display and the clock starts from 00 seconds.

To correct the current time
Press POWER to turn the unit off and press ❚❚ twice. Then, carry out steps 2 to 5 above.

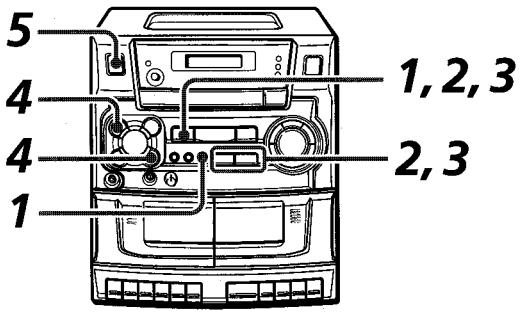
To switch to the 12/24-hour standard
While the power is off, press the ❚❚ button twice until the hour flashes and then press ■.
When the display switches, carry out steps 2 to 5 above to set the clock again.
In the 12-hour standard, "AM 12:00" indicates midnight and "PM 12:00" indicates noon.

If the clock display flashes while the power is off
This is caused by a power interruption. The current time needs to be reset.
If power is interrupted for more than approximately 12 hours, all settings stored in memory after purchase need to be reset.

NOTE
During operation ❚❚ PAUSE and ■ STOP on the remote control are also available instead of ❚❚ SET and ■ CLEAR on the main unit respectively.

En

SETTING THE TIMER



The unit can be turned on at a specified time every day with the built-in timer.
Set the timer as follows while the power is on.

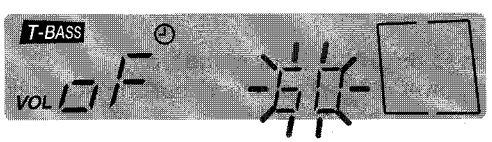
Preparation
Make sure the clock is set correctly.

1 Press TIMER to display ⏲, and press ▮▮ within 4 seconds.
⏲ and the hour flash.

NOTE
If you do not press ▮▮ within 4 seconds, another operation may start.

2 Designate the hour of the timer-on time by pressing ◀◀ or ▶▶, and ▮▮. Repeat to designate the minute of the timer-on time.

3 Select the duration for the timer-activated period with ◀◀ or ▶▶, and press ▮▮.



The duration for the timer-activated period can be set between 5 and 240 minutes in 5-minute steps.

4 Prepare the source.
To listen to a CD, press CD and load the disc.
To listen to the radio, press TUNER/BAND and tune to a station.

5 Press POWER to turn the unit off after adjusting the volume.
⏲ remains on the display after the power is turned off (timer standby mode).

When the timer-on time is reached, the unit turns on and begins play with the selected source.
The volume level is automatically set to 21 when the power is turned off with the volume level set to 22 or more.

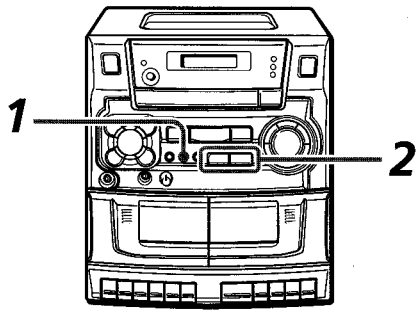
To check the specified time
Press TIMER. The timer-on time and the duration for the timer-activated period flash for 4 seconds.

To cancel timer standby mode temporarily
Press TIMER twice to turn off ⏲.

Using the unit while the timer is set
You can use the unit normally after setting the timer. Before turning off the power, repeat step 4 to prepare the source, and adjust the volume.

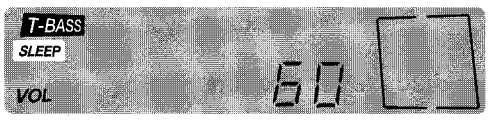
NOTE
- Timer playback will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.

SETTING THE SLEEP TIMER

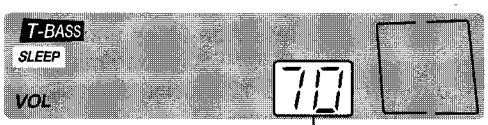


The unit can be turned off automatically at a specified time.

1 Press SLEEP.



2 Within 4 seconds, press ◄◄ or ►► to specify the time until the power is turned off.
Each time the button is pressed, the time changes between 5 and 240 minutes in 5-minute steps.



Specified time

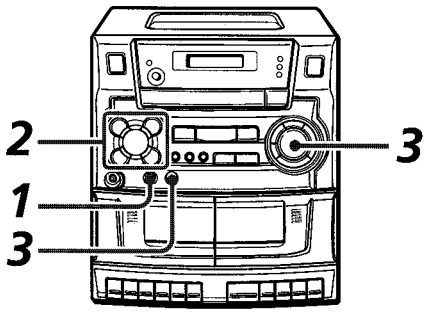
To check the time remaining until the power is turned off
Press SLEEP once. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Press SLEEP twice to turn off SLEEP on the display.

NOTE

- If you press SLEEP while the power is off, the power is turned on and the sleep timer works directly so that the unit will be turned off after 60 minutes.
  To specify the time until the power is turned off, press SLEEP once again then press ◄◄ or ►► within 4 seconds.
- If the unit is turned off during tape playback, ► PLAY on the decks will not be released. Press ■/⏏ STOP/EJECT to release ► PLAY.

MICROPHONE MIXING



1 Connect a microphone with a mini plug to the MIC jack.

2 Prepare a source to be mixed and play it.

3 Adjust the volume of the microphone with MIC VOL and the source to be mixed with VOLUME.

To record the microphone mixing sound
Insert a cassette to be recorded on into deck 1 and press ● REC.

NOTE

- During dubbing at high speed, the microphone mixing sound is not recorded.
- If a microphone is placed too close to the speaker, a howling sound (feedback) may be produced. If this happens, move the microphone away from the speaker or decrease the main volume.
- The use of a unidirectional type microphone is recommended to prevent howling.

En

CARE AND MAINTENANCE

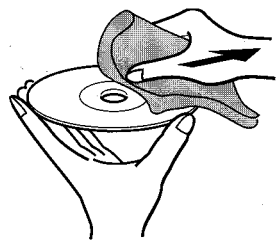
Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet
Use a soft and dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

To clean the heads
When the tape heads are dirty;
- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Use separately sold dry-type or wet-type cleaning cassette. Refer to the instructions of the cleaning cassette for details.

Care of discs
- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes
- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

SPECIFICATIONS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Antenna	Rod antenna

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Antenna	Ferrite bar antenna

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape: 50 Hz – 12500 Hz
Recording system	AC bias
Heads	Deck 1: Recording/playback head × 1 Erasure head × 1 Deck 2: Playback head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual

General

Power output	5 W + 5 W (4 ohms, EIAJ) 4 W + 4 W (65 Hz – 15 kHz, THD less than 1%, 4 ohms)
Output	PHONES (stereo minijack)
Power requirements	DC 12 V using eight size D (R20) batteries AC 120 V, 60 Hz
Power consumption	30 W
Dimensions of main unit (W × H × D)	266 × 303 × 251.5 mm (10 1/2 × 12 × 10 in.)
Weight of main unit	4.1 kg (9 lbs. 1 oz.)

Speaker

Type	120 mm cone type 27 mm ceramic type
Dimensions (W × H × D)	198 × 303 × 226 mm (7 7/8 × 12 × 9 in.)
Weight	1.65 kg (3 lbs. 10 oz.) × 2
Impedance	4 ohms
Allowable max. input	10 W

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Please check the laws on copyright relating to recordings from discs, radio or external tapes for the country in which the machine is being used.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.
- Is the AC cord connected properly?
- Was an incorrect function button pressed?

Power is not turned on.
- Is the AC cord connected to the unit with old batteries inserted?
  → Remove all the batteries and disconnect the AC cord. Then, connect the AC cord again and reset the unit as stated below.

An erroneous display or a malfunction occurs.
→ Reset the unit as stated below.

TUNER SECTION

The reception contains noise interferences or the sound is distorted.
- Is the unit picking up external noise or multipath distortion?
  → Change the orientation of the antenna or the unit.
  → Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.
- Is the deck in pause mode? (→ page 10)

The sound is off-balance or not adequately high.
- Is the playback head dirty? (→ page 16)

Recording is not possible.
- Is the erasure prevention tab on the tape broken off? (→ page 10)
- Is the recording head dirty? (→ page 16)

Erasure is not possible.
- Is the erasure head dirty? (→ page 16)
- Is a metal tape or CrO_2 tape being used?

High frequency sound is not emitted.
- Is the recording/playback head dirty? (→ page 16)

CD PLAYER SECTION

The CD player does not play.
- Is the disc correctly inserted? (→ page 8)
- Is the disc dirty? (→ page 16)
- Is the lens affected by condensation?
  → Wait approximately one hour and try again.

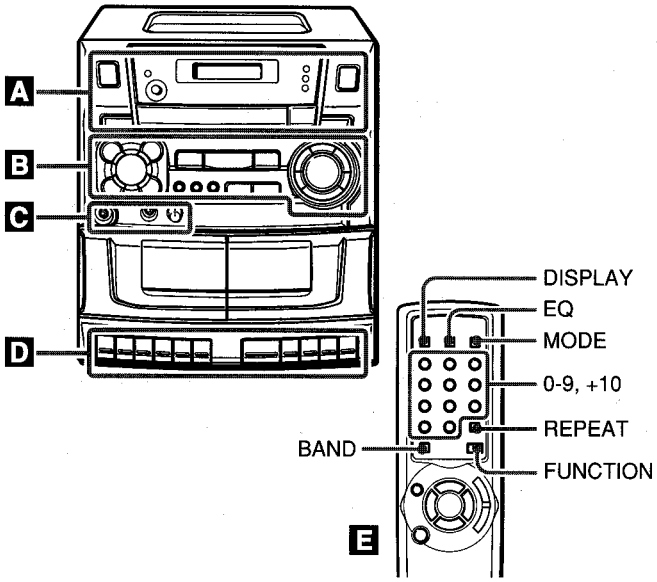
To reset

If an unusual condition occurs in the display window or the cassette decks, reset the unit as follows.

1 Press POWER to turn off the power.
2 Press POWER while pressing ■. Everything stored in memory after purchase is canceled.

PARTS INDEX

For instructions on use, refer to the page number indicated.



A POWER button ❺
▲ OPEN/CLOSE button ❽
QSURROUND button ⓫
B FUNCTION buttons (CD ❽, AUX ❹, TUNER/BAND ❻, TAPE ⓾)
■ CLEAR button ❼ ❽ ❾ ⓭
► PRESET button ❼ ❽
II SET button ❼ ❽ ⓭ ⓮
TUNING ⏮ DOWN, ⏭ UP (◄◄, ►►) buttons ❻ ❽ ⓭ ⓮
TUNER MODE/OSC/DUB SPEED button ❻ ⓭
SLEEP button ⓯
TIMER button ⓮
VOLUME buttons ⓫
T-BASS button ⓫
ROCK, POP, JAZZ buttons ⓫
C PHONES jack ❺
MIC jack ⓯
MIC VOL control ⓯
D Deck operation buttons (●, ►, ◄◄, ►►, ■/▲, II) ⓾ ⓬ ⓭
E DISPLAY button ❽
EQ button ⓫
MODE button ❻ ❾ ⓬
0-9, +10 buttons ❼ ❽ ❾
REPEAT button ❾
BAND button ❻
FUNCTION button ❺

Buttons on the remote control with the same names as those on the main unit can be used as well.

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